

BONDARENKO, Ya.D.

Respiratory function of the blood in Bright's disease. Sov. med.  
28 no.8:48-52 Ag '65. (MIRA 18:9)

1. Kafedra propedevtiki vnutrennikh bolezney (zav. - prof.  
F.Ya.Primak) Kiyevskogo ordena Trudovogo Krasnogo Znameni  
meditsinskogo instituta imeni Begomol'tsa.

BONDARENKO, Y.A.

807/10-59-4-27/29

30(5)	Pashchenko, I.I.
AUTHOR:	
TITLE:	First Conference to Study the Development of Productive Forces of the Stanislavets'k district in the Stalinsk Economic District and Methods to Conduct Economic and Geographical Research on the National Economy which Took Place in Chernovtsy from 6 to 10 April 1959. The conference was organized by the Ministry of Higher Education of the Ukrainian SSR (USSR), the Ministry of Higher Education of the University (Chernovtsy Chernivtsi) and Sovnarkom Chernovtsy (Chernovtsy State University), and the Sovet narodopischiy obshche (Economic Council) of the Transcarpathian District, with more than 100 scientists, education specialists, engineers, economists, and planning workers participating who heard 20 reports. The following personalities delivered reports: Z.N. Lututin, Head of the Chernovtsy State University, Neldan, opening address; I.V. Romanov, Deputy Chairman of the Stanislav Economic Council, lectured on the future development of that district during 1959-65; V.L. Chikyuk, - on "The Industrial Complex of the Stanislavsk Economic District and Its Economic Prospects and the Future"; and "Basic Laws in the Development and Geographical Distribution of Agricultural Production in the Carpathian areas of the Ukrainskaya SSSR"; K.G. Ivashchenko - on "The Present-Day Specialized Industry of the Stanislavsk District"; I.V. Mironova - on "The Future Development of Chernovtsy and Its Future Development"; Ya.I. Bondarenko and I.L. Bondarenko - on "The Wood Industry and Timber Industry of The Stanislavsk District and Their Future Prospects"; A.P. Peretyatko - on "Division of Economic Prospects"; I.V. Voron - "Geographic-Economic Prospects"; I.V. Voron - Institute of Commerce and Economics, elucidated on "The Training of V.I. Lenin on the Territorial Division of Labor as a Basis for the Modern Theory of Division of the USSR into Economic Districts"; S.L. Autchuk - "Ukrainian Districts", "The Methods of Division into Low-Level Economic Districts"; I.V. Pashchenko - Institute of Economic Information and Scientific Information, "The Location and Nature of Economic and Geographical Research on Various Scales at Non-Existing Object Development Schemes of Economic Districts".
Card 1/6	
Card 2/6	

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206220014-4

BONDARENKO, Ya.I.; ICHOTKIN, O.M.; KURILYUK, M.V. [Kurylyuk, M.V.]

Present state and main prospects for developing fruit culture  
and viticulture in the Khuat-Tyshev-Irshava subzone of Trans-  
carpathia. Geog. zhur. no.5:145-155 '62.

(MERA 17412)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206220014-4"

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206220014-4

TOKMAKOV, A.I.; KIRATENKO, N.G.; BONDARENKO, Ya.I.; DAGAYEVA, T.K.; RYBIN, N.N.;  
KOZHURINA, M.S.; KUNITSA, A.N.; ZHUPANSKIY, Ya.I.; BUTKOVSKIY, V.A.

In memory of Boris Nikolaevich Vishnevskii, 1891-1965. Izv. Vses.

geog. ob-vn 97 no.4:390-391 JI-Ag '65.

(MIRA 18:8)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206220014-4"

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206220014-4

BONDARENKO, Ye.

Transistorized etherophone. Radio no.10:33 0 '65.  
(MIRA 18:12)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206220014-4"

ACCESSION NR: AP4012429

S/0129/64/000/002/0019/0024

AUTHOR: Yukanova, S. A.; Bondarenko, Ye. A.; Dule', N. A.; Linchevskaya, M. I.; Nesterova, M. D.

TITLE: X-ray structural and electron microscopic analysis of type 16-25 and 18-40 alloys

SOURCE: Metalloved. i term. obrab. metallov, no. 2, 1964, 19-24

TOPIC TAGS: 16-25 alloy, 18-40 alloy, alloy steel, low carbon alloy steel, ferro-chrome-nickel steel, Laves phase steel alloying, residual phase, primary Laves phase, secondary Laves phase

ABSTRACT: The phase composition and microstructure of some ferro-chromium and ferro-chromium-nickel alloy steels were analyzed. The cast alloys were water quenched from 1200C, then were aged at 700 and 800C for 1-5000 hours and at 850C up to 300 hours. After heat treatment, the electrolytically isolated

Cont 1/3

ACCESSION NR: AP4012429

residual phases and microstructure of the alloys were analyzed by conventional and electron microscopic methods. Laves phases and binary carbides can be noted in low carbon alloys on ferro-chrome-nickel base containing varying degrees of tungsten in addition to niobium carbides and titanium carbonitrides. Alloying with tungsten and niobium affects the phase formation process in different ways: an increase in tungsten concentration in the alloys greatly increases the quantity of the secondary Laves phase, but increases insignificantly the quantity of binary carbides and primary Laves phase. An increase in the niobium content as well as titanium content in the alloy is accompanied by an increase and marked consolidation of the primary Laves phase, while the quantity of the secondary Laves phase decreases. In addition, when the titanium content is increased, secondary phases that are rich in nickel, titanium and aluminum, manifest themselves. An increase of the nickel content with a decrease in iron reduces the quantity of the primary and secondary Laves phases. Orig. art. has: 6 figures and 2 tables.

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ACCESSION NR: AP4012429

ASSOCIATION: TsNIITMASH (Central Scientific Research Institute of Heavy Machine Building)

SUBMITTED: 00

DATE ACQ: 03Mar64

ENCL: 00

SUB CODE: ML

NO REF SOV: 005

OTHER: 001

Card 3/3

*CONFIDENTIAL*

Results of an electron-microscopic study of austenitic steel S1257. L. I. Krushchova and N. A. Bondarenko. *Metallurg. i Osnovnaia Metal.* 1955, No. 1, p. 6. The steel was heat-resistant, contg. C 0.15, Mn 0.44, Si 0.37, Cr 13.8, Ni 18.95, Mo 0.55, W 2.02, P 0.02, and S 0.02%. The structures produced by the following heat-treatments were studied: quenching after 1 hr. at 1150° and then aging for various times at 650 to 850°. X-ray studies showed that only carbides of the type  $M_2C$  were produced by aging. Electron micrographs were made on microscope EM-100 with a Ti film replica. The surface was prep'd. by electro-polishing and then by etching with the soln.: 3%  $FeSO_4$ , 3.5% NaCl, 0.5% tartaric acid, balance  $H_2O$ . The Ti film was removed by electrolytic etching in a soln. of 5% HCl in alc. During aging at 450°, carbide was first detected in electron micrographs after 850 hrs., while it could not be seen in the light microscope even after 2000 hrs. The corresponding times at 600, 650, and 750° were: 10, 100; 1, —, 0.25, —. The first carbide was seen at grain boundaries where it occurred in chains. After longer times the carbide also was seen in the body of the grains. Carbide particles along twin boundaries tended to be rectangular; those in the body of the grain, square, and those in grain boundaries had a variety of shapes and were large; for example  $0.15 \mu$ , compared to  $0.03 \mu$ , the size of particles in the body of a grain. The num. and size of carbide increased with increasing time, and after 500 hrs. at 750° carbides in the body of a grain were  $0.35 \mu$ . However, new carbide particles were forming in the period between 50 and 100 hrs. aging at 750°. The rate of carbide formation varied from grain to grain.

A. G. Guy

Cent. Sci. Res. Inst. Heavy Machine Building.

BONDARENKO, Ye.A.; STEPANOVA, A.V.

Some peculiarities of metal oxidation (from "Zeitschrift fur Metallkunde" no. 46 1955). Metalloved. i obr. met. no.2:58-61 F '57. (MIRA 10:4)  
(Oxidation)

KUKLIN, B.K.; prinimali uchastiye: ZEL'VYANSKIY, A.Sh., gornyy inzh.;  
BAKHTIN, A.F., gornyy inzh.; FILIMONOV, A.F., gornyy inzh.; TARA-  
TUTA, N.K., gornyy inzh.; BONDARENKO, Ye.D., gornyy inzh.; NEYEN-  
BURG, V.Ye., kand. tekhn. nauk, otd. red.; NURMUKHAMEDOVA, V.F.,  
red. izd-va; LOMILINA, L.N., tekhn. red.

[Analyzing the methods of mining flat seams in the Donets Basin]  
Analiz sistem razrabotki pologikh plastov Donbassa. Moskva, Gos.  
nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1961. 415 p.  
(MIRA 14:6)

(Donets Basin--Coal mines and mining)

BONDARENKO, Ye.D.

The F505 type electron-tube voltmeter. Biul.tekh.-ekon.inform.  
no.1:46-48 '60. (MIRA 13:5)  
(Electron-tube voltmeter)

BONDARIEV, Ya.D.

Analytic method for selecting an efficient way of mining magnetous float-sands in the Donets Basin. Once. trad. Inst. poch. deka AN Ukr. no.13859-67 '63  
(NTR) 178 ]

BONDARENKO, Ye. D.

"Seven Cases of Amyloidosis of the Larynx," Vest. Oto-Rin., 14, No.3, 1952

BONDARENKO, Ye.D., kandidat meditsinskikh nauk.

Otogenous sinus thrombosis complicated by thrombosis of veins of the hand. Vest.oto-rin. 16 no.1:73 Ja-F '54. (MLRA 7:3)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta bolezney ukha, gorla i nosa (direktor - starshiy nauchnyy sotrudnik A.P. Kolibaba). (Ear--Diseases) (Hand--Diseases) (Thrombosis)

BONDARENKO, Ye.D., starshiy nauchnyy sotrudnik

Gas phlegmon of the neck. Vest.oto-rin. 16 no.2:84 Mr-Ap '54.  
(MIRA 7:6)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta bolezney  
ukha, gorla i nosa (dir. starshiy nauchnyy sotrudnik A.P.Kolibaba)  
(NECK, gangrene,  
\*gas) (GAS GANGRENE,  
\*neck)

BONDARENKO, Ye.D., kand.med.nauk

Rhinolalia aperta caused by surgical treatment of rhinolalia clausa  
[with summary in English]. Vest.oto.-rin 20 no.4:88-89 J1-Ag'58  
(MIRA 11:7)

1. Iz 30-y Khar'kovskoy klinicheskoy bol'nitsy bolezney ukha, gorla,  
i nosa.

(VOICE,

rhinolalia aperta caused by surg. in rhinolalia clausa  
(Rus))

BONDARENKO, Ye. D., kand. med. nauk

Development of sonorous speech in patients following laryngectomy.  
Vest. otorin. no.1:77-80 '62. (MIRA 15:7)

1. Iz logopedicheskogo otdela (zav. Ye. D. Bondarenko) 3-y  
spetsializirovannoy gorodskoy klinicheskoy bol'nitsy po boleznyam  
ukha, gorla i nosa, Khar'kov.

(LARYNX--SURGERY) (SPEECH THERAPY)

BONDARENKO, Ye.D.

Electronic instruments. Avtom.i prib. no.3:60-63 J1-S '62.  
(MIRA 16:2)

1. Kiyevskiy zavod tochnykh elektropriborov.  
(Electronic instruments)

БЕЗВАРИКО, Yevgeniya Lavrent'yevna, kand. ekon. nauk; САВИЧ  
Nikolai Nedelkov, kand. ekon. nauk; ТЯГИЙ, Ye., red.

[International socialist division of labor] Mezhdunarod-  
noe sotsialisticheskoe razdelenie truda. Moscow, Polit-  
izdat, 1964. 94 p.  
(EIR 17:8)

SMIRNOV, A.I.; TSOKANOVA, T.G.; BONDARENKO, Ye.M.; NOVOGRENKO, N.M.;  
DOROFEEV, B.G.

Heat transfer of type SF-80 and LF-9B tape-wound resistors with  
air cooling. Sbor. nauch. trud. EINII 2:205-212 '62.

(MIRA 16:8)

(Electric resistors—Cooling)  
(Heat—Transmission)

AVRAMENKO, V.G.; YERYSHEV, B.Ya.; BONDARENKO, Ye.M.; BELOV, V.N.

Syntheses based on  $\omega$ -chloroalkanoic acids. Part 1: Preparation of unsaturated acids with a terminal double bond by the pyrolysis of  $\omega$ -acetoxyalkanoic acids and their ethyl esters. Zhur. ob. khim. 32 no.4:1119-1123 Ap '62. (MIRA 15:4)

1. Moskovskiy khimiko-tehnologicheskiy institut imeni D. I. Mendeleyeva.

(Acids, Organic) (Unsaturated compounds)

MAVDRIKOV, F.I., inzh.; NOVOGRENKO, N.M., inzh.; BONDARENKO, Ye.M., inzh.;  
YASTREBOV, A.V., inzh.; SMIRNOV, A.I., inzh.; DCROFEEV, B.G.,  
inzh.

New designs of air cooled resistances. Vest. elektroprom.  
33 no.5:24-28 My '62. (MIRA 15:5)  
(Novocherkassk--Electric equipment industry)  
(Electric railroads--Electric equipment)  
(Electric resistors)

BONDARENKO, Ye.N., inzh.; ZAV'YALOV, N.N., inzh.

Production of foamed slag using a granulating drum. Stroi.  
mat. 10 no.3:32-33. Mr '64. (MIRA 17:6)

BONDARENKO, Yevgeniy Nikolayevich; TUBOL'TSEV, M.N., red.; MEDVEDEVA,  
R.A., tekhn.red.

[The club contributes to collective-farm production] Klub-kolkhoznomu proizvodstvu. Moskva, Izd-vo "Sovetskis Rossiiia." (Bibliotekha sel'skogo klubnogo rabotnika, no.5) No.1. [Promoting the initiative of leaders in the agriculture of Serpukhov District, Moscow Province] O propagande initiativy peredovikov sel'skogo khoziaistva Serpukhovskogo raionsa Moskovskoi oblasti, 1961. 23 p.

(MIRA 14:5)

(Serpukhov District--Agriculture)

BONDARENKO, Ye. P., Cand Tech Sci -- (diss) "Investigation of  
the Distribution of <sup>Stresses</sup> ~~Strains~~ in the Rail Head by the Method of  
Spatial Photo-Elasticity." Dnepropetrovsk, 1957. 16 pp with  
ill. (Min of <sup>Railways</sup> Communications, Dnepropetrovsk Inst of Engineers  
of Railroad Transportation), 100 copies (KL, 47-57, 87)

21

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 2, p 110 (USSR) SOV/124-58-2-2334

AUTHOR: Bondarenko, Ye. P.

TITLE: Investigation of the Stress Distribution in a Rail Head by Means of a Three-dimensional Photoelastic Method (Issledovaniya raspredeleniya napryazheniy v golovke rel'sa metodom prostranstvennoy fotouprugosti)

PERIODICAL: Vestn. Vses. n.-i. in-ta zh.-d. transp., 1957, Nr 5, pp 47-50

ABSTRACT: Bibliographic entry

Card 1/1

BONDARENKO, Ye.P., inzh.

Using the method of spatial photoelasticity for investigating  
distribution of stresses in rail heads. Trudy DIIT no.27;  
261-272 '58. (MIRA 12:1)

(Railroads--Rails--Testing)  
(Photoelasticity)

FRISHMAN, M.A., doktor tekhn.nauk, prof.; ISAKOV, I.F., kand.tekhn.nauk,  
dotsent; VOLOSHKO, Yu.D., kand.tekhn.nauk, dotsent; BONDARENKO,  
Ye.P., kand.tekhn.nauk

Experimental study of the performance of tracks with reinforced  
concrete ties. Trudy NIIT no.30:5-24 '60. (MIRA 14:12)  
(Railroads--Ties, Concrete)

IVANOV, K.Ye., inzh.; BONDARENKO, Ye.P., kend.tekhn.nauk  
(g.Dnepropetrovsk)

Ballast temper. Put' i put.khoz. 5 no.7:7-9-JI '61.  
(MIRA 14:8)  
(Railroads—Equipment and supplies)  
(Ballast(Railroads))

BONDARENKO, Ye. P., kand. tekhn. nauk (g. Dnepropetrovsk)

It is necessary to change the cross section of reinforced concrete  
ties. Put' i put. khoz. 6 no.9:29 '62. (MIRA 15:10)

(Railroads--Ties, Concrete)

BONDARENKO, Ye.S.

Clinical aspects of brain tumors in children during the  
first three years of life. Vop. okh. mat. i det. 7 no.2:17-23  
F '62. (MIRA 15:3)

1. Iz klinikki nervnykh bolezney detskogo vozrasta (zav. - prof.  
D.S. Futer) II Moskovskogo meditsinskogo instituta imeni N.I.  
Pirogova.

(BRAIN--TUMORS)

BONDARENKO, Ye.S.

Meningeal syndrome in tumors of the brain in children. Zhur.nevr.  
i psikh. 62 no.7:1024-1028 '62. (MIRA 15:9)

1. Klinika nervnykh bolezney detskogo vozrasta (dir. - prof.  
D.S.Futer\* II Moskovskogo meditsinskogo instituta imeni N.I.  
Pirogova.

(BRAIN--TUMORS) (MENINGITIS)

BONDARENKO, Ye.V., inzh.

Construction of the tower head frame in the "Butovskaya-Glubokaya"  
Mine. Shakht.stroi. 5 no.12:13-16 D '61. (MIRA 14:12)

1. Kombinat Donetskshakhtstroy.

(Donets Basin-Mine hoisting)  
(Mining engineering)

BONDARENKO, Ye.V., inzh.; YAKOVLEV, A.Ya., inzh.

Construction of towers in the "Stalinshakhtostroi" Combine.  
Shakht. stroi. 5 no.9:23-26 S '61. (MIRA 16:7)

1. Kombinat shakhtostroitel'nykh trestov Stalinskoy oblasti  
"Stalinshakhtostroy."  
(Donets Basin--Mine hoisting)

SOURCE CODE: UN/

ACC NR: AP7005103

BONDARENKO, Ye. V."Relay Element Characteristic Graph"

Moscow, Izvestiya VUZ - Elektromekhanika, No. 5, 66 pp. 531-537.

S Abstract: A description of a device which allows production, with a minimal expenditure of time, of the characteristics of operation of a relay on an oscilloscope screen and makes it possible to observe if the parameters of the relay circuit are changed. The device can also be used to observe the characteristics of two relays simultaneously. The relay being tested receives an alternating current with constant amplitude and phase plus a voltage whose amplitude and phase change so that during the time of measurement the end of the vector of this voltage passes through all points in a given area of the complex plane of voltages. The device is arranged so that the position of light dots on the screen of an oscilloscope always corresponds to the position of the end of the voltage vector on this complex plane. The usage of this device allows a considerable acceleration of the processes of testing and tuning relays and makes it possible to rapidly evaluate the influence of the circuit parameters of a relay on its characteristics. It is necessary, however, that all the transformation and amplification circuits have

Card 2/

Card 1/2

UDC: 621.318.5+62-501.2

0426

1620

000206220014-4

BONDARENKO, Ye. Ye.

SHAPOVALOV, Ya.S.; BONDARENKO, Ye.Ye., inzhener.

Metal open-square headpiece for roving machines. Tekst. prom. 17  
no. 3:46-48 Mr '57. (MILRA 10:4)

1. Glavnnyy inzhener Poltavskoy khlopkopryadil'noy fabriki (for  
Shapovalov).  
(Spinning machinery)

SHAPOVALOV, Ya.S.; BONDARENKO, Ye.Ye., inzh.

Reducing the unevenness of the product of roving machines.  
Tekst. prom. 25 no.10:18-22 O '65. (MIRA 18:10)

1. Glavnnyy inzh. Poltavskoy khlopkopryadil'noy fabriki (for  
Shapovalov). 2. Poltavskaya khlopkopryadil'naya fabrika (for  
Bondarenko).

BONDARENKO, Yu. N.

Improved construction of the tipping mechanism on a pouring  
drum ladle. Lit. proizv. no.10:43 0 '62.  
(MIRA 15:10)

(Foundries—Equipment and supplies)

BONDARENKO, Yu. N.

Modernizing the M323 shot blasting machine. Lit. proizv.  
no.10:43 O '62. (MIRA 15:10)

(Foundries—Equipment and supplies)  
(Metal cleaning)

BONDARENKO, Yu.N.

Welded links instead of cast. Mashinostroitel' no.11:13  
N '62. (MIRA 15:12)  
(Chains)

BONDARENKO, Yu.N.

Monorail truck. Mashinostroitel' no.7:8 Jl '63. (MIRA 16:9)  
(Industrial electric trucks)

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206220014-4

BONDARENKO, Yu.N.

New core-making machine. Mashinostroitel' no.6:31 Je '63.  
(MIRA 16:7)

(Coremaking)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206220014-4"

BONDARENKO, Yu.N.

Modernization of the MZ71 molding machine. Mashinostroyitel'  
no. 4814 Ap'64 (MIRA 17:7)

?VEREV, V.A.; BONDARENKO, V.E.

Casting of blast furnace coolers. (U.S. patent no. 3,116,162)  
N.Y.S.

USSR/Biology - Microbiology  
Bacteriology

Jul/Aug 49

149T7

"Formation of New Asporogenic Bacterial Cells,"  
M. I. Bondarenko-Zozulyina, Inst of Microbiol, Acad  
Sci USSR, Chair of Microbiol, First Med Inst,  
Moscow, 5 pp

"Mikrobiologiya" Vol XVIII, No 4

Observed intracellular chromophile granules in *Bacillus*  
*coli*, *Pseudomonas*, *Proteus vulgaris*  
only after prolonged staining according to Gin's  
method. Microscopic studies reveal that polar cells  
become swollen due to action of stain and begin to

149T7

USSR/Biology - Microbiology (Contd) Jul/Aug 49

move toward center. This swelling progresses ir-  
regularly. So-called nuclear action in reaction  
actually does not involve nuclei but polar granules,  
which are rearranged as a result of stain-induced  
swelling. Data obtained disprove existence of a  
varying nucleus in asporogenic bacteria, while  
Robinov and Peshkov confirm theory of diffusive  
nucleus in bacteria. Submitted 31 May 48.

149T7

BONDARENKO-ZOZULINA, M.I.

Characteristics of soil microflora in the rhizosphere of some dominant plants in the vegetative cover of the central part of the forest steppe. Trudy TSentr.-Chern. gos. zap. no.5:338-371 '59. (MIRA 13:8)  
(Rhizosphere microbiology)

BONDARENKO, B.N.

Mechanization of the product of commercial stone. Put' i put.khoz.  
9 no.8:40 '65. (MIRA 18:8)

1. Nachal'nik otdela shchebenochnykh zavedov sluzhby puti, Voronezh.

BONDARENKO, B.N.

Semienclosed type plant. Put' i put'khoz. 8 no.8:40 '64.  
(MIRA 17:9)

1. Nachal'nik otdela shchebenochnykh zavodov sluzhby puti, Voronezh.

BONDARENKO, B.N. (Voronezh)

Speeding up the rate of crushed stone production. Put' i  
put. khoz. 9 no.11:12 '65. (MIRA 18:11)

9(7)

SOV/66-59-3-20/31

AUTHOR: Bondarenkov, K., Engineer

TITLE: An Electronic Level-Signalling Device ESU-1

PERIODICAL: Kholodil'naya tekhnika, 1959, Nr 3, pp 66 - 68 (USSR)

ABSTRACT: Moskovskiy zavod "Fizpribor" (Moscow Plant Fizpribor) is producing electronic level-signalling devices ESU-1, working on the principle of change in electric capacitance in the system consisting of an "electrode transducer" and a "measured medium", taking place at the change of the level. The generator of the electronic unit is described and illustrated in the article. The device consists of an electronic unit, an electronic capacitor transducer, and a co-axial cable, enclosed in a flexible metal tube, 0.6 m long. The transducer, which consists of a brass or iron bar and an aluminium body, is attached to the interior wall of an open reservoir, or built in the wall of a reservoir under pressure. The unit is fed from an alternating current net of 220 V, 50 c. The power consumption is 17 W. The dimensions of the electronic unit are 193 x 222 x 126 mm. The unit is guaranteed for a room temperature of 10° to 35°C and a relative humidity of 70%. Permissible inaccuracy of the

Card 1/2

An Electric Level-Signalling Device ESU-1

SOV/66-59-3-20/31

device (temperature  $20 \pm 5^{\circ}\text{C}$ ) in horizontal position of transducer is  $\pm 2.5$  mm and in vertical position  $\pm 5$  mm. For every  $10^{\circ}$  of change in temperature inaccuracy increases by  $\pm 1$  mm for horizontal position and  $\pm 2$  mm for vertical position.  
There are 1 schematic and 1 circuit diagram.

Card 2/2

CHUPAKHIN, Nikolay Mikhaylovich, inzh.; RUDOMETKIN, Fedor Ivanovich,  
inzh.; BONDARENKO, K.A., red.; CHICHKOV, N.V., red.

[Installation and repair of refrigerating plants] Montazh i  
remont kholodil'nykh ustavok. Moskva, Gostorgizdat, 1961.  
340 p. (MIRA 18:6)

CHUPAKHIN, Nikolay Mikhaylovich, inzh.; RUDOMETKIN, Fedor Ivanovich, inzh.;  
BONDARENKOV, K.A., spets.red.; CHICHKOV, N.V., red.; MASLOVA,  
Ye.F., red.; SUDAK, D.M., tekhn.red.

[Assemblage, maintenance, and repair of refrigerating machinery]  
Montazh i remont kholodil'nykh ustavok. Moskva, Gos.izd-vo  
torg.lit-ry, 1960. 328 p. (MIRA 13:5)  
(Refrigeration and refrigerating machinery)

BONDARENKO, Konstantin Andreyevich; BELOV, Ivan Pavlovich;  
CHUPAKHIN, N.M., spets. red.; KREST'YANINOVA, Ye.N., red.;  
CHICHKOV, N.V., red.; MAMONTOVA, N.N., tekhn. red.

[Assembly of ammonia refrigerating plants] Montazh ammiachrykh  
kholodil'nykh ustavov; prakticheskoe rukovodstvo. Moskva,  
Gostorgizdat, 1962. 199 p. (MIRA 15:10)  
(Refrigeration and refrigerating machinery)

BONDARETS, L.P.

Synthesis of carboxylic acids from the by-products of petrolatum  
oxidation. Khim.i tekhn.topl.i masel 6 no.4:48-49 Ap. '61.

(MIRA 14:3)

1. Berdyanskij opytnyy neftemaslozavod.  
(Acids, Organic) (Petrolatum)

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206220014-4

BILIK, I.M.; GLOBUS, R.L.; BRUDZ<sup>1</sup>, V.G.; SEREBRYANNYY, A.M.; BONDARETS, N.M.

Effect of additions on the synthesis of diphenylolpropane.  
Trudy IREA no.25:191-194 '63. (MIRA 18:6)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206220014-4"

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206220014-4

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206220014-4"

BONDARITS, P.O., veterinarnyy vrach.

Characteristics of the course of foot-and-mouth disease among  
Schwyz cattle. Veterinaria 30 no.6:22-26 Je '53. (MLRA 6:5)

BONDAREV, A.

GROMADCHENKO, A., gorod shakty, Rostovskoy oblasti; GAPONOV, S., predsedatel',  
gorod Rydnya, Smolenskoy oblasti; VAYTULEVICH, F., Leningrad; BONDAREV, A.,  
predsedatel', Melovatskiy rayon, Voronezhskoy oblasti.

From the editor's mail. Voen.znam. 29 no.9:7 S '53.

(MLRA 6:12)

1. Rayonnyy orgkomitet Vsesoyuznogo dobrovol'nogo obshchestva sodeyatviya  
aviatsii (for Gaponov). 2. Rayonnyy orgkomitet Vsesoyuznogo dobrovol'nogo  
obshchestva sodeystviya aviatsii (for Bondarev). (Military education)

MOLOTKOV, A.; VOROB'YEV, D.; BONDAREV, A.

Mechanized processing of waterfowl. Mias.ind.SSSR 25 no.1:9-11  
'54. (MIRA 7:3)

1. Brattsevskaya ptitsefabrika. (Ducks) (Poultry, Dressing of)

BONDAREV, A.

Let's have more contests and more good athletes, Prof.-tekh.  
obr. 19 no.9:23-24 S '62. (MIRA 15:10)

1. Zamestitel' predsedatelya TSentral'nego soveta Dobrovol'nogo  
sportivnogo obshchestva "Trudovyye rezervy".

(Physical education for children)

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206220014-4

BONDAREV, A.

Educational conference in Kursk. Prof.-tekhn. chr. 15 no. 7:27 Jl  
'58. (MERA 11:7)  
(Kursk--Technical education)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206220014-4"

BONDAREV, A.A.

Experimental work of practicing agronomists and its methods.  
Zemledelie 8 no.8:83-87 Ag '60. (MIRA 13:8)

1. Glavnnyy agronom sovkhzo "Zarya", Kemerovskoy oblasti.  
(Agriculture--Experimentation)

BONDAREV, A.A.

Selecting the large fraction of seeds increases the yield. Zemledelie  
24 no.6:87-88 Je '62. (MIRA 15:11)

1. Glavnny agronom sovkhoza "Zarya", Promyshlennovskogo rayona,  
Kemerovskoy oblasti.

(Seeds--Grading)

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206220014-4

BONDAREV, A.A.; KULAYEVA, A.F.; MIKHAYLICHENKO, M.D.

Advanced methods for machining instrument parts. Avtom. i prib. no. 2:  
63-66 Ap-Je '65. (MIRA 18:7)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206220014-4"

DIMOV, G.I.; BONDAREV, A.F.

Strong focusing zones in the betatron. Izv. vys. ucheb. zav.;  
fiz. no.2:78-84 '58. (MIRA 11:6)

1.Tomskiy politekhnicheskiy institut im. S.M. Kirova.  
(Particle accelerators)

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206220014-4

KORSHUNOV, A.V.; BONDAREV, A.F.

Line width and interpretation of frequencies of low-frequency  
scattering spectra. Vest. IGU 19 no.16:22-25 '64.  
(MIRA 17:11)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206220014-4"

S/051/62/012/004/007/015  
E039/E485

AUTHOR:

Bondarev, A.F.

TITLE:

On the determination of the true contour of a spectral line with the aid of the observed one.

PERIODICAL: Optika i spektroskopiya, v.12, no.4, 1962, 510-514

TEXT: Any spectral line for a number of reasons, such as natural damping, Doppler effect, etc, possesses a finite width with a distribution of energy according to wavelength. This distribution, which is called its "true" distribution, can be described by some function  $\varphi(x)$ . In any spectroscopic apparatus a spectral line suffers a further broadening because of diffraction effects, scattering in photographic emulsion etc, which even for strictly monochromatic radiation will give some distribution of energy with wavelength  $a(x)$ . The combined effect of these two processes produces the so-called observed distribution of a spectral line  $f(x)$  which is given by the expression

$$f(x) = \int_{-\infty}^{\infty} \varphi(x') a(x - x') dx' \quad (1)$$

Card 1/2

L-17794-63

EWP(J)/EPF(c)/ZWT(m)/BDS Pe-4/Pr-4 RH/WJ

ACCESSION NR: AP3005838

S/0051/63/015/002/0182/0185

AUTHOR: Korshunov, A. V.; Bondarev, A. F.

63

TITLE: On line widths of low-frequency Raman light scattering in crystals of some paradisubstituted halogen derivatives of benzene

SOURCE: Optika i spektroskopiya, v. 15, no. 2, 1963, 182-185

TOPIC TAGS: Raman scattering, Raman scattering line width, low frequency Raman line width, organic crystal Raman scattering, parachloro-bromobenzene, parachloro-iodobenzene, rotation spectrum, molecular rotation spectrum

ABSTRACT: Photographic methods have been used to measure the line widths of the low-frequency ( $93 \text{ cm}^{-1}$ ) Raman scattering spectra of p-chlorobromobenzene and p-chloroiodobenzene crystals at room temperature. Results were compared to those obtained from other paradisubstituted halogen derivatives of benzene, and previous results concerning the molecular structure of these substances were confirmed by analysis of line widths in the low-frequency spectra

Card 1/2

L 17794-63

ACCESSION NR: AP3005838

of the crystals. The role of some possible line-broadening mechanisms such as rotational oscillations of molecules and chaotic reorientation of lattice molecules around their axes of symmetry is considered. It is shown that rotational braking barriers can be determined using data on the widths of lines of rotational lattice oscillations. It is assumed that thermal fluctuations of oscillation frequencies play a considerable role in broadening lines due to the rotational oscillations of molecules in organic crystals. Orig. art. has: 2 tables, 1 figure, and 5 formulas.

ASSOCIATION: none

SUBMITTED: 05Nov62

DATE ACQ: 06Sep63

ENCL: 00

SUB CODE: FH, CH

NO REF SOV: 004

OTHER: 001

Card 2/2

BONDAREV, A.F.

Role of the thermal motion of molecules in the broadening of bands  
of Raman scattering of light. Izv. SO AN SSSR no. 7 [REDACTED]  
no. 2:74-78 '63. (MIRA 16:10)

1. Institut fiziki Sibirskogo otdeleniya AN SSSR, Krasnoyarsk.

BONDAREV, A.F.

Width of polarized lines of Raman spectra. Izv. SSSR no.7  
Ser. khim nauk no.2:136-137 '64 (MIRA 18:1)

1. Institut fiziki Sibirskogo otdeleniya AN SSSR, Krasnoyarsk.

L 61701-65 EMT(1)/EMT(m)/EPF(c)/EWP(j)/T IJP(c) GG/RM

ACCESSION NR: AR5012269

UR/0058/65/000/003/D044/D044

36  
B

SOURCE: Ref. zh. Fizika, Abs. 3D335

AUTHOR: Bondarev, A. F.; Korshunov, A. V.

TITLE: Determining the braked molecular rotational barriers in certain organic crystals from the Raman spectra of low frequency light

CITED SOURCE: Tr. Komis. po spektroskopii. AN SSSR, vyp. 1, 1964

TOPIC TAGS: single crystal, nuclear potential barrier, organic crystal, benzene, naphthalene, Raman spectrum

TRANSLATION: The fluctuation mechanism of line broadening is used as a basis for developing a simple method to determine the potential barriers for rotational vibrations of molecules in organic crystals. It is necessary for this purpose to know the frequencies and widths of the lines which pertain to the corresponding oscillations at a given temperature. The method is verified on single crystals of benzene, some of its substituted compounds, naphthalene, etc. There is good agreement with the data of other methods where a comparison can be made.

SUB CODE: SS, NP

ENCL: 00

Card 1/1

BONDAREV, A. G.

BONDAREV, A. G. --"The Experience of the Development of the Strongly Alkaline Light Chestnut Brown Subzone of Stalingrad Oblast." Moscow Order of Lenin and Order of Labor Red Banner State U imeni Lomonosov, Soil Biology Faculty, Chair of Soil Physics and Development, Moscow, 1956 (Dissertation for the degree of Candidate in Biological Science.)

KNIZHNAY LETOPIS  
No 41, October 1956

YEGOROV, V.V.; ZIMOVETS, B.A.; BONDAREV, A.G.; SLAVNYY, Yu.A.; ORLOVA,  
Ye.M.; KAURICHEVA, Z.N.

Effect of the complex of soil cover on the effectiveness of  
saturation irrigation on large checks. Pochvovedenie no.10:  
6-15 O '65. (MIRA 18:11)

1. Pochvennyy institut imeni Dokuchayeva.

DVIV VITAE BY T.G.

BONDAREV, A.G.

Improving Solonetz soils of the light-colored Chestnut subzone in  
Stalingrad Province. Vest. Mosk. un. Ser. biol., pochv., geol., geog.  
12 no.3:149-156 '57. (MIRA 10:12)

1. Kafedra fiziki i melioratsii pochv Moskovskogo gosudarstvennogo uni-  
versiteta.  
(Stalingrad Province--Solonetz soils) (Gypsum)

BONDAREV, A.G.

Structure of turf-Podzolic soils and practices in their improvement using polymers. Pochvovedenie no. 7:96-102 Jl '65  
(MIRA 19:1)

1. Pochvennyy institut imeni V.V. Dokuchayeva, Moskva. Submitted April 30, 1964.

SHCHEGLOV, Sergey L'vovich; BONDAREV, Aleksey Ivanovich; LYZHIN, K.,  
red.; GIL'DEBRANT, Ye., tekhn.red.

[Noril'sk city; local geographical essay] Gorod Noril'sk;  
kraevedcheskii ocherk. Krasnoiarsk, Krasnoiarskoe knizhnoe  
izd-vo, 1958. 99 p. (MIRA 12:9)  
(Noril'sk--Description)

BONDAREV, A.I.

Hump yard track circuits. Avtom., telem. i sviaz' 8 no.12:34-36  
D '64. (MIRA 18:1)

1. Nachal'nik gorki stantsii Nizhnedneprovsk-Uzel Pridneprovskoy  
dorogi.

SOV/44-58-4-3010

Translation from: Referativnyy zhurnal, Matematika, 1958,  
Nr 4, p 84 (USSR)

AUTHOR: Bondarev, A.L.

TITLE: A Generalization of the Taylor Formula (Obobshcheniye  
formuly Teylora)

PERIODICAL: Matem. prosveshcheniye, Nr. 1, 1957, pp 129-137

ABSTRACT: Bibliographic entry.

Card 1/1

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206220014-4

BONDAREV, A.I., podpolkovnik

Mechanisms for pulling moving targets. Artilly zhur. no.8:  
48-49 Ag '53. (MIRA 13:3)  
(Targets (Military science))

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206220014-4"

ASTROZHNIKOV, Yu.V., kand. med. nauk (Vladimir (obl), 9, ul. Osipenko, d. 14/43, kv. 17); BONDAREV, A.K.

Abstracts. Ortop., travm. i protez. 25 no.11:66-67 N '64.  
(MIRA 18:11)

1. Iz Tret'yej gorodskoy bol'nitsy goroda Vladimira. Submitted January 30, 1964.

S/028/61/000/008/002/003  
D220/D304

AUTHOR: Bondarev, A. M.

TITLE: Standardization in geodesy, astronomy and time  
measurement instrument construction

PERIODICAL: Standartizatsiya, no. 8, 1960, 32 - 33

TEXT: The author states that the present quality of geodesic instruments is inadequate and national standards, therefore, are required. In 1951 - 1953 the Central Department of Geodesy and Cartography (GUGK) layed down certain standards on theodolites, tachometers, and precision level measuring instruments, but work on these standards was not completed. The author recommends the foundation of a central scientific research institution for geodesy and cartography to lay down these standards. In 1961 - 63 work will be carried out on standardization and normalization of geodesic instruments in order to improve the products of the instrument construction industry. The Committee of Standards on Measures and Measuring Instruments

Card 1 / 3

S/028/61/000/008/002/003

D220/D30<sup>4</sup>

Standardization in geodesy...

elaborated standards on the following topics: theodolites, levelling instruments, plane tables, mechanical and optical plumbmets, supporting combinations, tripods, surveyors' poles and many other devices. "TsNIIGAiK" was entrusted with the creation of basic standards for the geodesic instrument industry and its associated branches. The author believes it is necessary to eliminate the unjustified nonuniformity of geodesic devices, to make their basic parameters standard and to ascertain the technical demands and the standard testing methods to be used. It is also important that these standards should satisfy the demands of instruction I-58 designed for consolidating national standards. At the present time some aspects of production are based on obsolete standards which should be amended and brought up-to-date. Astronomy also demands standardization; in general, standards do not exist in the following fields: astronomy, cosmography, the application of astronomy to navigation, aviation and time measurement: OST VKS 6203 dealt with some basic def-

Card 2/ 3

Standardization in geodesy...

S/028/61/000/008/002/003  
D220/D304

initions is astronomy and OST VKS 7158 with terms, definitions and designations for the measurements of time. The author regrets that these documents were later declared void. The Astronomical Council AS USSR has carried out extensive work on replacing and improving these standards. In the 67th edition of the Technical Committee's bulletin the basic letter designations in astronomy were discussed. At present, it does not appear to be difficult to create national standards and an agreed terminology for the science of astronomy. The standards planned should not cover all the possible fields of astronomy and so only the prevalent ones should be stated and their dissemination ensured. The author does not recommend any specific means of investigation in this field, but he believes that it should be important to decide on the organization of the "the service of transitory time" which would be a realistic way of securing uniformity and accuracy in time measurement.

Card 3/3

S/028/61/000/003/005/005  
B129/B201

AUTHOR: Bondarev, A. M.

TITLE: Conference on the quality of computers

PERIODICAL: Standartizatsiya, no. 3, 1961, 57

TEXT: The Komitet standartov, mer i izmeritel'nykh priborov (Committee on Standards, Measures, and Measuring Instruments) held a meeting in December, 1960 to discuss the quality of computers. It was attended by 46 delegates from factories, scientific research institutes, design offices, and the State committees of the Council of Ministers of the USSR for technical branches. The lecture on "The quality of computers" was delivered by a delegate of the Committee on Standards, Measures, and Measuring Instruments. It was noted that insufficient attention was devoted to the quality of computers, especially such with perforation and keys. The manufacture of some types of computers which are particularly required by the Russian industry is insufficient. The delegates' attention was directed to the necessity of a larger specialization of factories in the field of computer engineering. Such a specialization creates the conditions that are ✓

Card 1/2

BONDAREV, A.M.

Trends in the standardization of computing equipment. Standartizatsiya  
25 no. 5:40-42 My '61. (MIRA 14:5)  
(Calculating machines—Standards)

BONDAREV, A.M.

Setting up standards for geodetic instruments, astronomy and the  
time service. Standartizatsiia 25 no.8:32-33 Ag '61.  
(MIRA 14:7)

(Astronomy--Observations--Standards)  
(Geodesy--Equipment and supplies--Standards)  
(Time measurements--Standards)

BONDAREV, A.M.

New State Standard 7502-61 "Metal measuring tapes." Izm.tekh.  
no.3:12-13 Mr '62. (MIRA 15:2)  
(Measuring tapes--Standards)

BONDAREV, A.M.

Development of international standardization in the field of calculating equipment. Standartizatsiia 26 no.6:62-63 Je '62. (MIRA 15:7)  
(Calculating machines--Standards)

BONDAREV, A.M.

French exhibition of electronic measuring instruments and equipment.  
Izm.tekh. no.11:56-57 N '63. (MIRA 16:12)

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206220014-4

BONDAREV, A.M.

Input and output devices of electronic computers.  
Standartizatsiia 28 no.3:44-45 Mr'64. (MIRA 17:5)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206220014-4"

BONDAREV, A.N.

Mixed tumor of the mediastinum filling the pleural cavity.  
Khirurgiia no.12:70 D' 55. (MLEA 9:7)

1. Iz khirurgicheskogo otdeleniya leineynoy bol'nitsy vodnikov  
Pechorskogo rechnogo basseyna.  
(MEDIASTINUM - TUMORS)

EREZ, S.L.; RYKLINA, A.G.; BONDAREV, A.S.

Clinical characteristics of nonspecific ulcerous colitis.  
Kaz. med. zhur. no.1:19-22 Ja-F '62. (MIRA 15:3)

1. Kafedra infektsionnykh bolezney (zav. - dotsent  
S.L. Erez) Donetskogo meditsinskogo instituta i oblastnaya  
bol'niitsa imeni M.I. Kalinina (glavnnyy vrach - B.A. Shparenko).  
(COLITIS)  
(ULCERS)

BONDAREV, A.S.

Category : USSR/Radiophysics - Radio Measurements

I-8

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 4599

Author : Lukoashkov, V.S., Bondarev, A.S., Shvetsov, B.N.

Title : Investigation of the Electromagnetic Field of Cavities with the Aid of  
a Probe with High-Resistance Leads.

Orig Pub : Radiotekhn. i elektronika, 1956, 1, No 4, 497-511

Abstract : Description of method for the investigation of the distribution of electromagnetic field in cavity resonators of arbitrary shape with the aid of a probe and high-resistance leads. The probe is introduced inside the cavity together with a miniature detector through a small, practically non-radiating hole, is placed in the field point under study, and acts either as an electric or as a magnetic dipole of rather small size. It is assembled together with the detector on a small head made of polystyrol and at low frequencies it is connected by high-resistance conductors (high-resistance carbon p<sup>aste</sup>, coated on a quartz tube of diameter  $d = 2 \text{--} 3\text{mm}$ ) to the indicator, located outside the volume under investigation. In those cases, when the dipoles cannot be kept small compared with the wavelength owing to

Card : 1/2

Category : USSR/Radiophysics - Radio Measurements

I-8

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 4599

technological limitations (they are limited to several millimeters), the model of the investigated volume was magnified with a corresponding increase in the wavelength. The block diagram of the measuring set-up is given, and the circuit elements are listed; an estimate of the measurement error is made. The method is shown to be suitable for the investigation of fields in resonant and non-resonant frequencies and insures an accuracy of approximately 5%.

Card : 2/2

9(1)

SOV/112-59-4-8110

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 4, p 245 (USSR)

AUTHOR: Bondarev, A. S., and Semenov, G. F.

TITLE: Approximate Computation of Dispersion in a Regular Dielectric-Type  
Waveguide

PERIODICAL: Izv. vyssh. uchebn. zavedeniy. Radiotekhnika, 1958, Nr 2,  
pp 231-235

ABSTRACT: A method is suggested of computing the dispersion characteristic of a regular waveguide with a small size arbitrary-shape dielectric placed in the waveguide parallel to its axis. The method is based on an equivalent replacing of the above dielectric with another dielectric whose shape and position permit solving exactly the electrodynamic problem. The equivalence criterion is established by the theory of small perturbances. From authors' summary.

Card 1/1

307/142-58-4-29/30

Stolyarov, A.G.

All-Union Session Marks "Radio Day" (Vsesoyuznaya nauchno-prakticheskaya sessiya po radiofizike i radioelektronike, Moscow, April 10).

Investigations, possibly undertaken by "Dryu Radio" in 1958, Br. 4, pp. 517-521 (MSS) -avedeniy - Radiotekhnika.

During the period May 16-17, 1959, an All-Union Scientific Session was held in Moscow, devoted to "Radio Studio Day". It was organized by the Scientific Technical A.S. Polyakov Association for Radio-Engineering and Communications. Paper were read at the session, 25 in the field of information theory and more than 20 in the field of electronic devices, dealing with theoretical and experimental research on electronic equipment. V. I. Lutkov, Director of the Institute, took part in the session.

the transmission capacity of **Shannon** and **Weaver** depends on the communication canals. **Millman** located at the potential interference of an ideal radio receiver. **D.A. Marylees** discussed the transmission system of electric signals by the **Optimal Code** of **Shannon**. A **W. H. Sorenson** analyzed the "noisy" equipment for determining the successive minimum noise resistance and **J.M. Park** examined the potential of the instruments of the **Code-measuring** devices in the optimal phase.

Interference Resistance. B.S. Pleyman spoke on the question of creating an optimal code - in the Shannon case of a binary symmetrical canal. P.Borodin discussed "The Method of Creating Several Codes with a Simple Base". In the field of electronics, A.F.Terser spoke on "Aboard Band Electron Ray Tubes for Recording of Electric Impulses and Frequency". V.P.Radchenko examined the practical utilization of tubes with a short gap. N.H.Slobodchikov presented a method of recording of the boundary current. J.P. Gersuny gave a report on "The Question of the Application of the Boundary Current Method".

**High-Tension Waves.**—For Examining Electromagnetic fields  
resonators and wave guides.<sup>1</sup>

**High-Tension Spoke.**—<sup>2</sup> For Producing Oscillatory  
Currents on the Selection of Oscillatory  
Density.

**Magnetic Current.**—<sup>3</sup> Modulated According  
to a wide range of electron adjustment. S. I. Bychkov  
explained the phenomenon of electron displacement and  
gave an approximate description of the frequency and  
amplitude characteristics of the magnetron under conditions of  
various factors on a critical influence of the magnetic field.

Mr. J. Lebedoff, Chairman of the Scientific Commission, spoke on "A Grid Method of Determining the Strength of Reinforced Concrete Beams". Mr. Kurskikhin spoke on "Modern Methods of Calculating Reinforced Concrete Beams". Mr. G. A. Kuzmin spoke on "Methods of Combining the Results of Several Observations".

Deon Kernell spoke on "The Theory of Non-Linear Oscillations in Radio Engineering". L.L.A. Kondratenko and G.I. Sushko spoke on "Electromagnetic Radiation in Dielectrics". N.M. Slobodchikov spoke on "The Theory of Reciprocity in Ultra-High Frequency Range".

APPROVED FOR RELEASE: 06/09/2000

**CIA-RDP86-00513R000206220014-4"**

SOV/120-59-2-34/50

AUTHORS: Semenov, G.F., and Bondarev, A.S.

TITLE: Four-pole and Two-pole Impedance Measurements by the Method of Switching Two Resistances (Izmereniye impedansov chetyrekhpolyusnikov i dvukhpolyusnikov metodom vklyucheniya dvukh sопrotivleniy)

PERIODICAL: Pribory i tekhnika eksperimenta, 1959, Nr 2,  
pp 118-119 (USSR)

ABSTRACT: A simple method is proposed for the measurement of the input impedance of four-poles at audio frequencies; see circuit diagram shown in Fig 1. The source is connected to the four-pole via an L-section  $R_1$  and  $R_2$ . Shunt and series switches  $K_1$  and  $K_2$  respectively enable input voltage and current to be deduced from voltage readings and known resistances. With  $K_1$  closed and  $K_2$  open the input voltage to the four-pole is measured and the output voltage noted. With  $K_1$  open the new source voltage  $U_2$  for the same output is noted.  $K_2$  is then closed and  $U_3$  measured similarly. The Cartesian components of input impedance are given by Eqs (1) and (2). Since the voltages on the four-pole remain constant the method applies to active as

Card 1/2